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ISOTAG BIOTIN ALKYNE PACK

SKU: CCT-1502



DESCRIPTION

IsoTaG H/L Biotin Alkyne probe takes advantage of the mass shift of stable isotope labels to enable mass-independent chemical proteomics platform that helps to address unique challenges of the proteome characterization. In this approach a unique isotopic signature is embedded exclusively into the peptides and it serves as a computationally recognizable full-scan MS reporter. A computational algorithm, termed isotopic signature transfer and mass pattern prediction (IsoStamp), for the detection of recoded species in full-scan mass spectra, was also developed by the Carolyn Bertozzi group. IsoTaG H/L Biotin Alkyne pack contains 2 mg of light [M] and heave [M+2] probe encoded by 2 C12 or 2 C13 atoms.

SPECIFICATIONS

Molecular Weight	516.64
Appearance	Oil to grey amorphous solid
Unit Size	1 Pack
Solubility	DMSO, DMF
Storage Instructions	-20C

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

IsoTag H Biotin Azide	1 vial, 2 mg
IsoTag L Biotin Azide	1 vial, 2 mg
Purchase Note	Add some note
Shelf Life	3 years at -20C
Shipping Instructions	Ambient temperature

SELECTED REFERENCES

1. Woo, C.M., *et al.* (2015). Isotope-targeted glycoproteomics (IsoTaG): a mass-independent platform for intact N- and O-glycopeptide discovery and analysis.*Nat Methods.,* **12**: 561-7. [PubMed]
2. Woo, C.M., *et al.* (2017). Development of IsoTaG, a Chemical Glycoproteomics Technique for Profiling Intact N- and O-Glycopeptides from Whole Cell Proteomess. *J. Proteome Res.,* **16**: 1706−18. [PubMed]
3. Goa, G., *et al.* (2017). Small Molecule Interactome Mapping by Photoaffinity Labeling Reveals Binding Site Hotspots for the NSAIDs. *J. Am. Chem. Soc.,* **140**: 4259−68. [PubMed]
4. Weerapana, E., *et al.* (2010). Quantitative reactivity profiling predicts functional cysteines in proteomes. *Nature* **468**: 790−5. [PubMed]
5. Woo, C.M., *et al.* (2017). Mapping and Quantification of Over 2000 O-linked Glycopeptides in Activated Human T Cells with Isotope-Targeted Glycoproteomics (Isotag). *Mol. Cell. Proteomics* **17**: 764-75. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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